

# TUTORIALS

## Gavin Lucas

Director of ThePaperMill

### Troubleshooting Session: Key challenges for early-career researchers

The goal of this short session is help early-career researchers gain new perspectives on some of the key challenges they face, and to acquire practical tools that they can apply in their day-to-day working environment. I will present short modules focused on communication, personal effectiveness, and on sharing and discussing the common challenges faced by all early career researchers, and how they can be addressed.

Topics for this workshop:

- Group awareness - Troubleshooting the challenges of early-career research
- Communication - Understanding my audience and pitching my message
- Project Management – How can I prioritise my tasks?

Gavin Lucas PhD, director of ThePaperMill, is a scientist with 13 years of experience as a biomedical researcher, and 10 years of experience as an academic author's editor, consultant and trainer. In addition to his own solid track-record as a publishing scientist on national, European and international research projects, as an academic author's editor and consultant, he has helped plan, critique, and polish over 300 original scientific articles for dozens of institutes in diverse fields, as well as numerous FP7 and H2020 proposals. He also has extensive experience as a trainer in scientific writing and other transferable skills for researchers, and provides consultancy on training and scientific productivity at numerous academic institutes and agencies.

## Leonardo Bautista-Gomez

Research Scientist at BSC

### How to become rich following an academic career

The scientific field is very competitive and sometimes it can be even intimidating. This can lead promising young researchers to move to other domains or industries. However, following an academic career also comes with multiple advantages that might be hard to recognize at the early stages. In this talk I will present the perks and benefits of following an academic career.

Dr. Leonardo Bautista-Gomez is a Research Scientist at the Barcelona Supercomputing Center where he leads the European Marie Curie project on Deep-memory Ubiquity, Resilience and Optimization. He was awarded the 2016 IEEE TCSC Award for Excellence in Scalable Computing

(Early Career Researcher). Before moving to BSC he was a Postdoctoral researcher for 3 years at the Argonne National Laboratory, where he investigated data corruption detection techniques and error propagation. Prior to that, he did his PhD. in resilience for supercomputers at the Tokyo Institute of Technology. He developed a scalable multilevel checkpointing library called Fault Tolerance Interface (FTI) to guarantee application resilience at extreme scale. For this work, he was awarded the 2011 ACM/IEEE George Michael Memorial High Performance Computing Ph.D. Fellow at Supercomputing Conference 2011 (SC11), Honorable Mention. Before moving to Tokyo Tech, he graduated in Master for Distributed Systems from the Paris 6 University.

## Toni Peña

Research Scientist at BSC

### Marie Curie Individual Fellowships: Info & Best Practices

Marie Skłodowska-Curie Individual Fellowships from the European Commission are a great hit in a researcher's career. We will introduce these fellowships, including requirements and benefits, and will advise on how to prepare a successful application.

Dr. Antonio J. Peña is currently a Sr. Researcher at BSC, Computer Sciences Department. He works within the Programming Models group where he leads the "Accelerators and Communications for HPC" team. Antonio is the Manager of the BSC/UPC NVIDIA GPU Center of Excellence and member of the Outreach Working Group. He is also Teaching and Research Staff at Universitat Politècnica de Catalunya. Antonio is a Marie Skłodowska-Curie Fellow, former Juan de la Cierva Fellow, and a recipient of the 2017 IEEE TCHPC Award for Excellence for Early Career Researchers in High Performance Computing. His research interests in the area of runtime systems and programming models for high performance computing include resource heterogeneity and communications. Antonio was formerly at Argonne National Laboratory (U.S.A.) and Universitat Jaume I (Spain).